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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/542,042	03/31/2000	Jae-yoon Sim	SEC.701	4063	
20987	7590 03/30/2005		EXAMINER		
VOLENTINE FRANCOS, & WHITT PLLC			KUMAR,	KUMAR, PANKAJ	
ONE FREEDOM SQUARE 11951 FREEDOM DRIVE SUITE 1260			ART UNIT	PAPER NUMBER	
RESTON, V	/A 20190	2631			
			DATE MAILED: 03/30/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/542,042	SIM ET AL.			
		Examiner	Art Unit			
		Pankaj Kumar	2631			
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
THE N - Exten after: - If the - If NO - Failur Any re	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Is ions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing of patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONET	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status						
2a)⊠ 3)□	Responsive to communication(s) filed on <u>12 North</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Dispositi	on of Claims					
5)⊠ 6)⊠ 7)⊠	Claim(s) <u>1-22</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) <u>1-10 and 16-22</u> is/are allowed. Claim(s) <u>11, 12</u> is/are rejected. Claim(s) <u>13-15</u> is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.				
Application	on Papers					
9)[] 7	The specification is objected to by the Examine	r.				
10) 🗌 🗆	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority u	nder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(•					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Paper No(s)/Mail Date						
3) 🔲 Inform	ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date		te atent Application (PTO-152)			

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed have been fully considered but they are not persuasive.

- 2. Applicant argues that it is not feasible to put the two references together because Dodds fig. 4 teaches analog signals and Workman fig. 5 between elements 72 and 75 teaches digital signals. This not persuasive. Dodds teaches in col. 7 lines 10-28 that fig. 4 has "pulses indicating binary "0"... binary "1"" (especially lines 15-17). This means pulses indicating digital signals. Workman fig. 5 between elements 72 and 75 also teaches digital signals. Even if this is not sufficient, the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981).
- In response to applicant's argument that combining Workman and Dodds would not be functional, again the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981).
- 4. Applicant argues that it would not be obvious to insert the equalizing amplifier of Dodds into a digital circuit and it would not be obvious to insert the equalizing amplifier of Dodds between channel memory 72 of Workman and Mux 109 of Workman. This is not persuasive.

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Workman wants to transmit signals (broad) in general and Dodds teaches a method of transmitting signals over long distances by overcoming data degradation which occurs by transmitting over long distances. Also, again the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art.

Response to Amendment

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 11, 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Workman 4,181,822 in view of Dodds 5,841,841. See prior action for details.

Conclusion

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

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MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pankaj Kumar whose telephone number is (571) 272-3011. The examiner can normally be reached on Mon, Tues, Thurs and Fri after 8AM to after 6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad H. Ghayour can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).